

Siphonurus demaryi (A Mayfly)

Priority 2 Species of Greatest Conservation Need (SGCN)

Class: *Insecta* (Insects)

Order: *Ephemeroptera* (Mayflies)

Family: *Siphonuridae* (Primitive Minnow Mayflies)

General comments:

Known from 3 sites on 2 rivers (Carabasset River, Lily Bay Brook); regional endemic with only other EOs in New Brunswick (1) and Nova Scotia (2); G2G3; moderate to high survey effort for Siphonuridae in ME has not yielded additional records

Species Conservation Range Maps for A Mayfly:

Town Map: [Siphonurus demaryi_Towns.pdf](#)

Subwatershed Map: [Siphonurus demaryi_HUC12.pdf](#)

SGCN Priority Ranking - Designation Criteria:

Risk of Extirpation: NA

State Special Concern or NMFS Species of Concern:

Siphonurus demaryi is listed as a species of Special Concern in Maine.

Recent Significant Declines: NA

Regional Endemic:

Siphonurus demaryi's global geographic range is at least 90% contained within the area defined by USFWS Region 5, the Canadian Maritime Provinces, and southeastern Quebec (south of the St. Lawrence River).

High Regional Conservation Priority:

NatureServe:

Global Rank: G2

High Climate Change Vulnerability: NA

Understudied rare taxa:

Recently documented or poorly surveyed rare species for which risk of extirpation is potentially high (e.g. few known occurrences) but insufficient data exist to conclusively assess distribution and status. *criteria only qualifies for Priority 3 level SGCN*

Notes:

Historical: NA

Culturally Significant: NA

Habitats Assigned to A Mayfly:

Formation Name Boreal Upland Forest

Macrogroup Name Boreal Upland Forest

Habitat System Name: Acadian Low Elevation Spruce-Fir-Hardwood Forest **Notes:** secondary (riparian only)

Habitat System Name: Acadian Sub-boreal Spruce Flat **Notes:** secondary (riparian only)

Habitat System Name: Boreal Upland Forest Macrogroup - Unknown Habitat System **Notes:** unknown range of upland habitat associations - two occurrences; secondary (riparian only)

Formation Name Freshwater Aquatic

Macrogroup Name Lakes and Ponds

Habitat System Name: Lakes and Ponds Macrogroup - Unknown habitat system **Notes:** range of lake/pond system use unknown; single lake occurrence is at stream inlet

Habitat System Name: Oligotrophic **Notes:** single lake occurrence is at stream inlet; primary

Macrogroup Name Rivers and Streams

Habitat System Name: Headwaters and Creeks ****Primary Habitat****

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Class: *Insecta* (Insects)Order: *Ephemeroptera* (Mayflies)Family: *Siphonuridae* (Primitive Minnow Mayflies)**Formation Name** **Freshwater Aquatic**Habitat System Name: Medium River ****Primary Habitat****Habitat System Name: Small River ****Primary Habitat**** Notes: *presumed***Formation Name** **Northeastern Upland Forest**Macrogroup Name **Northern Hardwood & Conifer**Habitat System Name: Laurentian-Acadian Northern Hardwoods Forest Notes: *secondary (riparian only)*Habitat System Name: Laurentian-Acadian Pine-Hemlock-Hardwood Forest Notes: *secondary (riparian only)*Habitat System Name: Laurentian-Acadian Red Oak-Northern Hardwood Forest Notes: *secondary (riparian only)***Stressors Assigned to A Mayfly:**

Stressor Priority Level based on Severity and Actionability		Moderate Severity	High Severity
	Highly Actionable	Medium-High	High
	Moderately Actionable	Medium	Medium-High
	Actionable with Difficulty	Low	Low

IUCN Level 1 Threat **Other Options****IUCN Level 2 Threat:** Lack of knowledge**Severity:** Moderate Severity**Actionability:** Highly actionable**Notes:** Lack of comprehensive survey effort to identify additional occurrences and determine species status**IUCN Level 1 Threat** **Biological Resource Use****IUCN Level 2 Threat:** Logging and Wood Harvesting**Severity:** Moderate Severity**Actionability:** Moderately actionable**Notes:** In riparian zone where forest canopy is lost or degraded**IUCN Level 1 Threat** **Transportation and Service Corridors****IUCN Level 2 Threat:** Roads and Railroads**Severity:** Moderate Severity**Actionability:** Moderately actionable**Notes:** In riparian zone where forest canopy is lost or degraded or water quality is impacted; in stream corridor where bridge crossing impacts stream banks, bottom or water quality**Species Level Conservation Actions Assigned to A Mayfly:**

None. *Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.*

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

Relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife

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Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.